

SYSTEM AND METHOD FOR DETERMINING CAPACITANCE
FOR LARGE-SCALE INTEGRATED CIRCUITS

ABSTRACT OF THE DISCLOSURE

For use in an integral equation formulation of capacitance, a
5 system for, and method of, generating a representation of charge
distribution for a given capacitive structure (which may be an
integrated circuit). In one embodiment, the system includes: (1)
a charge variation function generator that creates a
multidimensional charge variation function that is independent of
10 a conductive geometry of the structure and (2) a conductive
geometry generator, associated with the charge variation generator,
that creates a conductive geometry that is independent of charge
variation in the structure, the charge variation function and the
conductive geometry employable in the integral equation formulation
15 to reduce a complexity thereof.